

CLAIMS

What is claimed of my new invention is:

1. A camera mount for use in the outdoors to support a camera for recording images of flora, fauna, and participants in outdoors-recreational activities, said mount comprising a rotatable support plate and a clamping mechanism adaptable to be disposed upon square, rectangular, or round shaped shafts, the camera mount further comprising:

a support plate defining a horizontal planer surface for supporting a camera thereon;

at least one vertical side extending from the support plate;

the support plate defining an angled control handle extending from one end upon a centrally located horizontal axis;

means for attaching a camera to the support plate; and

means for connecting the clamping mechanism to the support plate.

2. The camera mount as recited in claim 1, wherein said support plate and angled handle have vertical sides perpendicular to said support plates horizontal planer surface, defining a lip around said support plate and angled handles perimeter.

3. The camera mount as recited in claim 1, said means for attaching a camera to said support plate comprising a hole upon a first vertical axis and along said centrally located horizontal axis for a threaded fastener to extend through to secure a camera statically to the support plate;

the support plate fastener hole defining a cylindrical side extending vertical from and perpendicular to the support plates horizontal planer surface defining a lip around the fastener hole perimeter; and

the support plate fastener hole wherein said cylindrical side defines a centrally located cylindrical rib to retain said fastener.

4. The camera mount as recited in claim 1, wherein said support plate further comprising a semi-spherical projection upon a second vertical axis and along said centrally located horizontal axis, wherein said semi-spherical projections radial axis is disposed on a plane vertically below and parallel to said support plates horizontal planer surface;

the semi-spherical projection defining parallel concave and convex surfaces; and

the semi-spherical projection defining a centrally located hole for a threaded fastener to extend through, whereby said hole partially removes the side of said semi-spherical projection that is parallel to said support plate's planer surface at an angle originating from the radial axis of said semi-spherical projection defining clearance around said threaded fastener.

5. The camera mount as recited in claim 1, further comprising a semi-spherical pivot defining a convex outer surface which bears against said concave surface of said support plates semi-spherical projection;

the semi-spherical pivot defining a centrally located hole for said threaded fastener to extend through;

the semi-spherical pivot defining a concave side by a first face and a second face which are parallel to a plane on a horizontal axis and perpendicular to said hole, said first face being disposed on a horizontal plane which is vertically above the horizontal plane of said second face, whereby said concave side defines a relief to receive a hexagonal fastener head; and

the semi-spherical pivot defining a polar array of six ribs, which originate at the outermost radius of said concave side and project centrally upon a vertical axis and perpendicular to said hexagonal fastener head, thereby restricting rotational movement of said hexagonal fastener head.

6. The camera mount as recited in claim 1, said clamping mechanism comprising an upper clamping plate defining a horizontal planer surface which bears against the surface of the desired square, rectangular, or round shaped shaft said clamping mechanism is to be disposed upon;

the upper clamping plates horizontal planer surface defining mirrored angled surfaces by a first face and a second face which are mirrored upon a vertical axis and said vertical axis being perpendicular to said upper clamping plates horizontal planer surface, said mirrored angled surfaces being

disposed on a plane upon a horizontal axis which is vertically above and parallel to the horizontal axis of said upper clamping plates horizontal planer surface, whereby said mirrored angled surfaces bear against the surface of the desired square, rectangular, or round shaped shaft said upper clamping plate is to be disposed upon;

the upper clamping plate defining a side by a first face and a second face which are parallel to a plane on a horizontal axis, said first face being said upper clamping plates horizontal planer surface, said second face being disposed on a plane vertically below the plane of said first face, whereby said side defines a lip perpendicular to said upper clamping plates horizontal planer surface; and

the upper clamping plate defining a hole upon a vertical axis along a centrally located horizontal axis and perpendicular to said upper clamping plates horizontal planer surface for said threaded fastener to extend through.

7. The camera mount as recited in claim 6, said upper clamping plate further comprising: a cylindrical pivot seat defining a first cylindrical side extending to a horizontal plane vertically above and parallel to said upper clamping plates horizontal planer surface upon a vertical axis perpendicular to said upper clamping plates horizontal planer surface, and said vertical axis is same said vertical axis of said fastener hole defining a lip around said fastener hole perimeter;

the cylindrical pivot seat defining a second cylindrical side parallel to said first cylindrical side extending to a horizontal plane vertically above said horizontal plane of said first cylindrical side

and parallel to said upper clamping plates horizontal planer surface upon a vertical axis perpendicular to said upper clamping plates horizontal planer surface, and said vertical axis is same said vertical axis of said fastener hole;

the cylindrical pivot seat defining a polar array of six ribs, which originate at the innermost radius of said second cylindrical side and project centrally upon a vertical axis and perpendicular to said upper clamping plates horizontal planer surface to the outermost radius of said first cylindrical side;

the cylindrical pivot seat defining a concave surface, whereby said polar array of six ribs originate at said clamping plates horizontal planer surface and extend vertically to said first cylindrical sides horizontal plane continuing upon a radial axis parallel to said radial axis of said semi-spherical projection to said horizontal plane of said second cylindrical side; and

the cylindrical pivot seat defining a concave surface that bears against said convex surface of said support plate's semi-spherical projection.

8. The camera mount as recited in claim 6, said clamping mechanism further comprising:

a lower clamping plate defining opposing horizontal planer surfaces by a first face and a second face which are parallel upon a vertical axis to a plane on a horizontal axis, said first face being said lower clamping plates first horizontal planer surface, said second face being said lower clamping plates second horizontal planer surface;

the lower clamping plate defining a hole upon a vertical axis along a centrally located horizontal axis and perpendicular to said lower clamping plates horizontal planer surfaces for said threaded fastener to extend through;

the lower clamping plate defining opposing sides by a first face and a second face which are parallel to a plane on a horizontal axis, said first face being said lower clamping plates first horizontal planer surface, said second face being disposed on a plane vertically below the plane of said first face, whereby said opposing sides define a notch therein which bears against the surface of the desired square, rectangular, or round shaped shaft said lower clamping plate is to be disposed upon;

the lower clamping plate notch defining a horizontal planer surface on a horizontal axis vertically below and parallel to said lower clamping plates first horizontal planer surface;

the lower clamping plate notch defining mirrored angled surfaces by a first face and a second face which are mirrored upon a vertical axis centrally located upon a horizontal plane which is vertically below and parallel to the horizontal axis of said lower clamping plate notch's horizontal planer surface and said vertical axis being perpendicular to said lower clamping plate notch's horizontal planer surface, whereby said mirrored angled surfaces bear against the surface of the desired square, rectangular, or round shaped shaft said lower clamping plate is to be disposed upon; and

the lower clamping plates second horizontal planer surface defining a cylindrical surface disposed upon a radial axis and said radial axis originating upon said horizontal axis of said lower clamping

plates said second horizontal planer surface, whereby said cylindrical surface bears against the surface of the desired square, rectangular, or round shaped shaft said lower clamping plate is to be disposed upon.

9. The camera mount as recited in claim 8, whereby said clamping mechanisms lower clamping plate is invertable to adapt to various square, rectangular, or round shaped shafts.

10. The camera mount as recited in claim 1, said means for connecting the clamping mechanism to the support plate comprising a threaded fastener and a coaxial threaded knob, whereby said coaxial threads allow cooperative engagement of said threaded fastener and said threaded knob; and

the hexagonal fastener head and threaded knob, whereby cooperatively engaged defining parallel cooperative surfaces perpendicular to said coaxis.

11. The camera mount as recited in claim 10, said means for connecting the clamping mechanism to the support plate further comprising the cooperative engagement of the hexagonal fastener head and the concave surface of the semi-spherical pivot, the convex surface of the semi-spherical pivot and the concave surface of the support plates semi-spherical projection, the convex surface of the support plates semi-spherical projection and the concave surface of the upper clamping plates cylindrical pivot seat, and the horizontal planer surface of the lower clamping plate and perpendicular surface of the threaded knob;

the threaded fastener extending through the coaxial holes in the semi-spherical pivot, the support plates semi-spherical projection, the upper clamping plate, the lower clamping plate, and the threaded knob, whereby the support plate is rotatable to select angles relative to the support plate and compressive tension upon the clamping mechanism is adjusted by tightening or loosening the threaded knob, whereby the support plate with a camera secured thereon being attached to the clamping mechanism and the clamping mechanism being disposed upon the desired square, rectangular, or round shaped shaft and desired compressive tension being adjusted the support plate may be static or rotatable to select a desired angle, for the recording of images.

TODD SEEGREN - 022002